

AMENDMENTS

In the Specification:

Please substitute Table 8, as provided below, for original Table 8:

Table 8

Receptor	Peptide ligand	SEQ ID NO	Species of origin	EC ₅₀ range-GTP _γ S assay	IC ₅₀ range-binding assay
CEGPCR4 (SEQ ID NO:22)	DVPGVLRF-NH ₂	80	<i>C. elegans</i> / <i>flp18</i>	~5-80 nM	0.5-10 nM
	KSVPGVLRF-NH ₂	92	<i>C. elegans</i> / <i>flp18</i>		
	SEVPGVLRF-NH ₂	98	<i>C. elegans</i> / <i>flp18</i>		
	SVPGVLRF-NH ₂	100	<i>C. elegans</i> / <i>flp18</i>		
	DFDGAMPGVLRF-NH ₂	120	<i>C. elegans</i> / <i>flp18</i>		
	EIPGVLRF-NH ₂	121	<i>C. elegans</i> / <i>flp18</i>		
	AVPGVLRF-NH ₂ (AF3)	79	<i>A. suum</i>		
	GDVPGVLRF-NH ₂ (AF4)	84	<i>A. suum</i>		
	GMPGVLRF-NH ₂ (AF20)	87	<i>A. suum</i>		
	ASPSFIRF-NH ₂	78	<i>C. elegans</i> / <i>flp4</i>		
CEGPCR4 (SEQ ID NO:22)	GNSFLRF-NH ₂	88	<i>Manduca</i>	~0.4 - 9 μ M	60-900 μ M
	KPNFLRF-NH ₂	91	<i>C. elegans</i> / <i>flp1</i>		
	PDVDHVFLRF-NH ₂ (SchistoFLRFa)	94	<i>Locust</i>		
	pQDVDHVFLRF-NH ₂ (leucomyosuppressin) [#]	95	<i>Locust</i>		
	ILNleRF-NH ₂	90	synthetic		
CEGPCR4 (SEQ ID NO:22)	SPLGTMRF-NH ₂	143	<i>C. elegans</i> / <i>flp3</i>	~10 μ M or higher	50-500 μ M
	SDNFMRF-NH ₂	122	Drosophila		
	PDNFMRF-NH ₂	123	Drosophila		
	SAEPFGTMRF-NH ₂	97	<i>C. elegans</i> / <i>flp3</i>		
	GGPQGPLRF-NH ₂	85	<i>C. elegans</i> / <i>flp15</i>		
	EIVFHQISPIFFRF-NH ₂	83	<i>C. elegans</i> / <i>flp14</i>		
	TDVDHVFLRF-NH ₂	101	<i>Drosophila</i>		
	TNRNFLRF-NH ₂ (Lobster peptide II)	102	<i>Lobster</i>		
	NGAPQPFVRF-NH ₂	93	<i>C. elegans</i> / <i>flp11</i>		

CEGPCR4 (SEQ ID NO:22)	VLRF-NH ₂	152	synthetic	~4 μM	~0.4 μM
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Please substitute the passage provided below for the text at page 53, line 7 to page 54, line 3:

“The CEGPCR3 receptor (SEQ ID NO:43) was found to be activated by several peptide ligands (Table 7), as determined in the GTP_S assay. Chinese hamster ovary cells were incubated for 24 hours at 37°C after transfection, followed by an additional 24 hours incubation at 28°C before cell harvesting for membrane preparation. CEGPCR3 was matched with two *C. elegans* peptides encoded by *flp15*, GGPQGPLRF-NH₂ (SEQ ID NO:85; EC₅₀ 152 nM) and GPSGPLRF-NH₂ (SEQ ID NO:89; EC₅₀ 422 nM). A *Manduca* peptide, GNSFLRF-NH₂ (SEQ ID NO:88; EC₅₀ 7900 nM), also activated the CEGPCR3 receptor, albeit with a potency about 19-52-fold lower than that determined for the two *C. elegans* *flp15* peptides. Based on these data, we identified CEGPCR3 as the receptor for *flp15* peptides.

Table 7

Receptor	Peptide ligand	SEQ ID NO	Species of origin	EC ₅₀ range
CEGPCR3 (SEQ ID NO:44)	GGPQGPLRF-NH ₂	85	<i>C. elegans</i> / <i>flp15</i>	150 – 400 nM
	GPSGPLRF-NH ₂	89	<i>C. elegans</i> / <i>flp15</i>	
	GNSFLRF-NH ₂	88	<i>Manduca</i>	~ 8 μM
CEGPCR7 (SEQ ID NO:26)	GLGPRPLRF-NH ₂	86	<i>A. suum</i> (AF9)/ <i>C. elegans</i> (<i>flp21</i>)	~200-250 nM
	[I]Y ⁰ -GLGPRPLRF-NH ₂	118	Synthetic AF9 analog	

In addition, peptide ligands were identified for the CEGPCR7 receptor (SEQ ID NO:25), as revealed in Table 7. One peptide bears the sequence GLGPRPLRF-NH₂ (SEQ ID NO:86; AF9) (EC₅₀ 207 nM). It is worth noting that [I]Y⁰GLGPRPLRF-NH₂ (SEQ ID NO:118), representing an AF9 analog N-terminally extended with a 3-iodo-Tyr residue, was also active (EC₅₀ 237 nM). The

functional activity of [I]Y⁰AF9 indicates that this analog is an agonist and, in labeled (e.g., radioiodinated) form is useful as a probe for binding assays, including high-throughput screening (HTS) assays.”